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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of separating <u>unwanted</u> lightweight grains from raw grains using a vertical cylinder having, in order from the top, an exhaust port, a cylindrical primary separation space, a conical secondary separation space, <u>a tertiary separation space</u>, and an unloading port, comprising:

a primary separation step of introducing raw grains containing the lightweight grains, which are to be separated, together with primary air into the cylindrical primary separation space in a direction to allow the raw grains to whirl upward in a whirling motion along an inner wall surface of the cylindrical primary separation space, so that most of the lightweight grains contained in the raw grains are guided to the exhaust port by upwardly flowing air in the cylindrical primary separation space and the raw grains and part of the lightweight grains stay in a predetermined flow area by frictional resistance with respect to the inner wall surface generated by the whirling motion and then are dropped into the conical secondary separation space by their own weight;

a secondary separation step of blowing secondary air to a lower portion of the conical secondary separation space through a slit toward [[a]] an upwardly beveled surface of a stabilizer provided centrally in the lower portion of the conical secondary separation space, and toward the raw grains dropping into the conical secondary separation space from the primary separation step so as to blow lightweight substances grains in the raw grains upward to the cylindrical primary separation space;

a tertiary separation step of blowing tertiary air upward from below the conical secondary separation space to blow remaining lightweight grains to the conical secondary separation space; and

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a discharging step of taking the raw grains with the lightweight grains removed

continuously out from the unloading port at a lower portion of provided below the conical

secondary separation space; and

an exhaust step of continuously exhausting primary, secondary, and tertiary air having the

lightweight grains toward a horizontal opposite direction to the whirling direction of the raw

grains in the cylindrical primary separation space.

2. (Cancelled)

3. (Currently Amended) A device for separating <u>unwanted</u> lightweight grains from raw

grains, comprising:

a cylindrical section having an exhaust port tangential to an inner peripheral wall of the

cylinder at an upper portion thereof;

a conical section provided below the cylindrical section;

a raw grain feeding unit for feeding raw grains into the cylindrical section to whirl the

raw grains upward along an inner periphery of the cylindrical section above the conical section;

a lightweight grain separating unit for taking air having the lightweight grains in the raw

grains out from the upper portion of the cylindrical section against the whirling direction of the

raw grains;

a secondary air blowing unit for blowing the secondary air toward the raw grains being

dropped from the cylindrical section upward at a lower portion of the conical section to move

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fine grains upward to the cylindrical section wherein the secondary air blowing unit blows a

high-speed fresh secondary airflow into a chamber that surrounds a slit formed between a an

upwardly beveled surface of a stabilizer and a lower end of the conical section; and

a tertiary air blowing unit, the tertiary air blowing unit blowing tertiary fresh air upward

from below the conical section into a chamber bounded by the stabilizer and a unit for

discharging separated heavier material raw grains away from the stabilizer.

4. (Cancelled)

5. (Original) A device according to Claim 3, wherein the secondary air blowing unit

comprises a secondary air intake chamber connected via a slit provided at the lower end of the

conical section for taking compressed air therefrom.

6. (Cancelled)

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

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10. (Currently Amended) A device for separating unwanted powder bodies from grains

comprising:

a cylindrical section forming a primary separation space having an opening of an a

horizontal exhaust pipe for discharging air having the powder bodies at an upper portion thereof;

a conical section forming a secondary separation space provided on a downside of the

cylindrical section;

a grain feeding unit for feeding grains containing the powder bodies into the cylindrical

section from a lower port of the cylindrical section so as to whirl in the cylindrical section in a

direction away from the opening of the exhaust pipe along an inner periphery of the cylindrical

section;

a secondary air blowing unit for blowing high-pressure air at a lower portion of the

conical section from a circumferential slit on the conical section toward the grains containing the

powder bodies being dropped from the cylindrical section on an upwardly beveled surface of a

stabilizer to move the powder bodies upward to the cylindrical section;

a tertiary air blowing unit for blowing tertiary fresh air from into a tertiary separation

space provided below the eonical secondary separation space; and

a unit for discharging the grains from below under the secondary air blowing unit tertiary

separation space.

11. (Cancelled)

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12. (Currently Amended) A device according to Claim 10, wherein the secondary air blowing unit has a secondary air intake chamber surrounding the slit that blows a high-speed secondary airflow through the slit toward an upwardly beveled surface of a stabilizer provided at a lower end of the conical section.